



Monthly Environmental Monitoring Report

Yancoal Mount Thorley Warkworth

May 2024

CONTENTS

1.0	INTRODUCTION.....	4
2.0	AIR QUALITY.....	4
2.1	Meteorological Monitoring.....	4
2.1.1	Rainfall.....	4
2.1.2	Wind Speed and Direction.....	4
2.2	Depositional Dust.....	6
2.3	Suspended Particulates.....	6
2.3.1	HVAS PM ₁₀ Results.....	6
2.3.2	TSP Results.....	7
2.3.3	Real Time PM ₁₀ Results.....	7
2.3.4	Real Time Alarms for Air Quality.....	7
3.0	WATER QUALITY.....	8
3.1	Surface Water.....	8
3.2	HRSTS Discharge.....	8
3.3	Groundwater Monitoring.....	8
4.0	BLAST MONITORING.....	9
4.1	Blast Monitoring Results.....	9
5.0	NOISE.....	12
5.1	Attended Noise Monitoring Results.....	12
5.1.1	WML Noise Assessment.....	12
5.1.2	MTO Noise Assessment.....	13
5.1.3	NPfl Low Frequency Assessment.....	14
5.2	Noise Management Measures.....	17
6.0	OPERATIONAL DOWNTIME.....	17
7.0	REHABILITATION.....	18
8.0	ENVIRONMENTAL INCIDENTS.....	18
	Appendix A: Meteorological Data.....	20

Figures

Figure 1: Rainfall Trend YTD	4
Figure 2: Charlton Ridge Wind Rose – May 2024	4
Figure 3: Air Quality Monitoring Locations	5
Figure 4: Depositional Dust – May 2024	6
Figure 5: Individual PM10 Results – May 2024	6
Figure 6: Annual Average PM10 – May 2024	7
Figure 7: Annual Average Total Suspended Particulates – May 2024	7
Figure 8: Real Time PM10 daily 24hr average (line graphs) and YTD annual average (column graphs) – May 2024	8
Figure 9: Abbey Green Blast Monitoring Results – May 2024	9
Figure 10: Bulga Village Blast Monitoring Results – May 2024	9
Figure 11: MTIE Blast Monitoring Results – May 2024	10
Figure 12: Wollemi Peak Road Blast Monitoring Results – May 2024	10
Figure 13: Wambo Road Blast Monitoring Results – May 2024	10
Figure 14: Warkworth Blast Monitoring Results – May 2024	10
Figure 15: MTW Blast Monitoring Location Plan	11
Figure 16: Noise Monitoring Location Plan	16
Figure 17: Operational Downtime by Equipment Type – May 2024	17
Figure 18: Rehabilitation YTD – May 2024	18

Tables

Table 1: Monthly Rainfall MTW	4
Table 2: Blasting Limits	9
Table 3: $L_{Aeq, 15 \text{ minute}}$ Warkworth Impact Assessment Criteria – May 2024	12
Table 4: $L_{A1, 1 \text{ minute}}$ Warkworth - Impact Assessment Criteria – May 2024	12
Table 5: $L_{Aeq, 15 \text{ minute}}$ Mount Thorley - Impact Assessment Criteria – May 2024	13
Table 6: $L_{A1, 1 \text{ Minute}}$ Mount Thorley - Impact Assessment Criteria – May 2024	13
Table 7: Warkworth Low Frequency Noise Assessment – May 2024	14
Table 8: Mount Thorley Operations Low Frequency Noise Assessment – May 2024	15
Table 9: Supplementary Attended Noise Monitoring Data – May 2024	17
Table 10: Complaints Summary YTD	19
Table 11: Meteorological Data – Charlton Ridge Meteorological Station – May 2024	21

Revision History

Version No.	Version Details	Date
1.0	Final	05/08/2024

1.0 INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Mount Thorley Warkworth (MTW). This report includes all monitoring data collected for the period 1 May to 31 May 2024.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

Meteorological data is collected at MTW’s ‘Charlton Ridge’ meteorological station (refer to **Figure 3**).

2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2024 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

Table 1: Monthly Rainfall MTW

2024	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
May	81.6	339.0

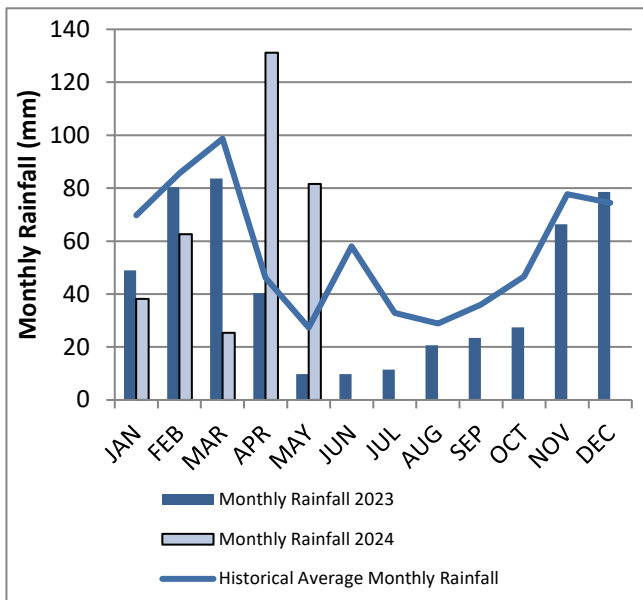


Figure 1: Rainfall Trend YTD

Note: The historical average monthly rainfall is calculated from 2007 to 2023 monthly totals.

2.1.2 Wind Speed and Direction

Winds from the South were dominant during the reporting period as shown in **Figure 2**.

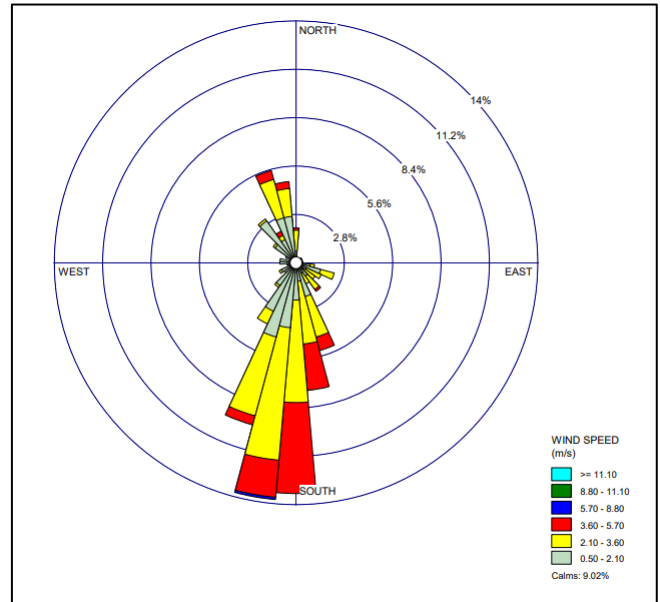


Figure 2: Charlton Ridge Wind Rose – May 2024

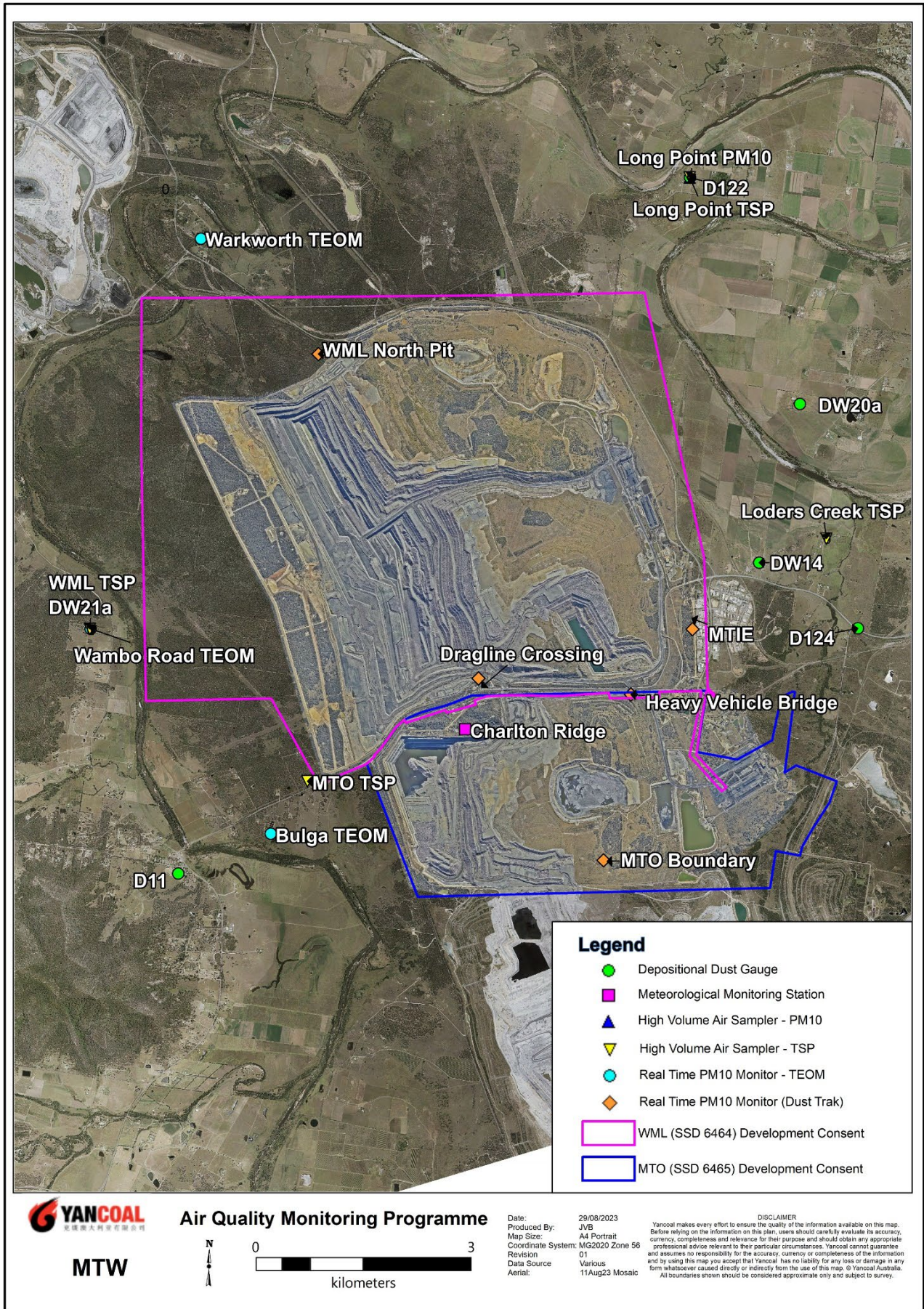


Figure 3: Air Quality Monitoring Locations

2.2 Depositional Dust

To monitor air quality, MTW operates and maintains a network of seven depositional dust gauges, situated on private and mine owned land surrounding MTW.

During the reporting period the Warkworth monitor recorded a monthly result above the long-term impact assessment criteria of 4.0 g/m² per month. There is no evidence to suggest that the result is contaminated. Accordingly, the result will be included in the annual average calculation.

Figure 4 displays insoluble solids results from depositional dust gauges during the reporting period compared against the year-to-date average and the annual impact assessment criteria.

An annual assessment of MTW’s compliance with the Long-Term Impact Assessment Criteria will be provided in the 2024 Annual Review Report.

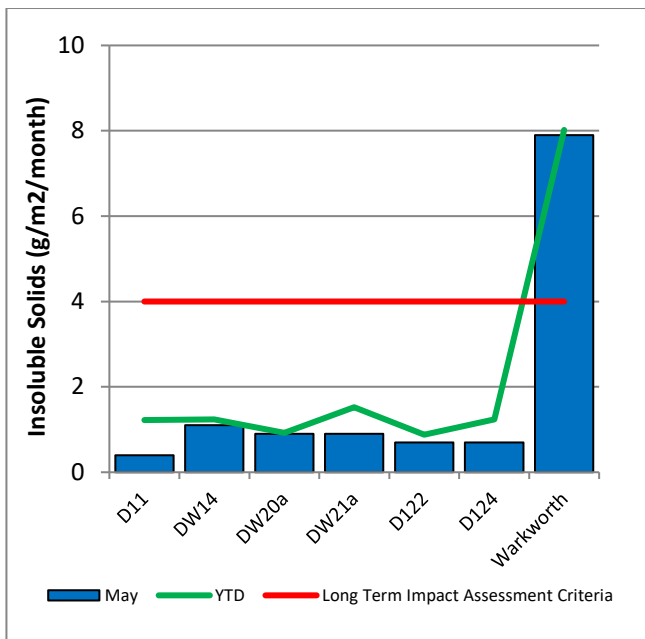


Figure 4: Depositional Dust – May 2024

2.3 Suspended Particulates

Suspended particulates are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter <10µm (PM₁₀). The location of these monitors can be found in **Figure 3**. Each HVAS was run for 24 hours on a six-day cycle in accordance with EPA requirements.

2.3.1 HVAS PM₁₀ Results

Figure 5 shows the individual PM₁₀ results at each monitoring station against the short-term impact assessment criteria of 50µg/m³.

Data was not available on 5 May 2024 for the Long Point HVAS PM₁₀ unit, due to an equipment issue.

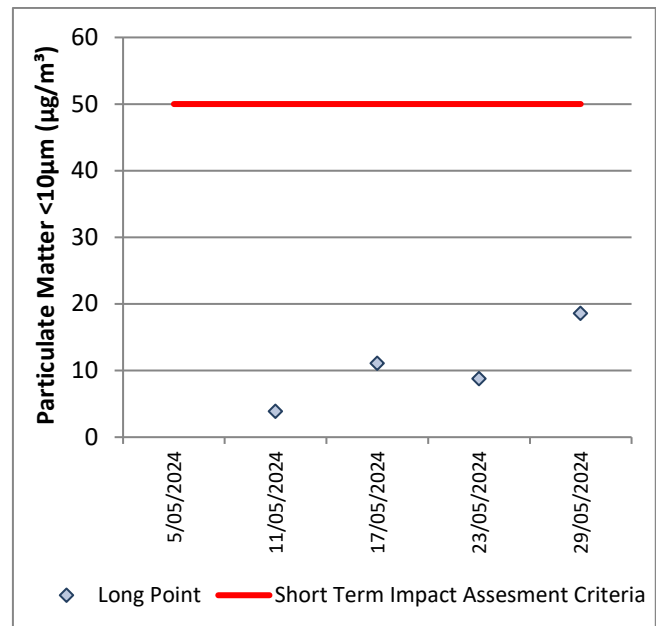


Figure 5: Individual PM₁₀ Results – May 2024

Figure 6 shows the annual average PM₁₀ result against the long-term impact assessment criteria.

An assessment of MTW’s compliance with the Long-Term Impact Assessment Criteria will be provided in the 2024 Annual Review Report.

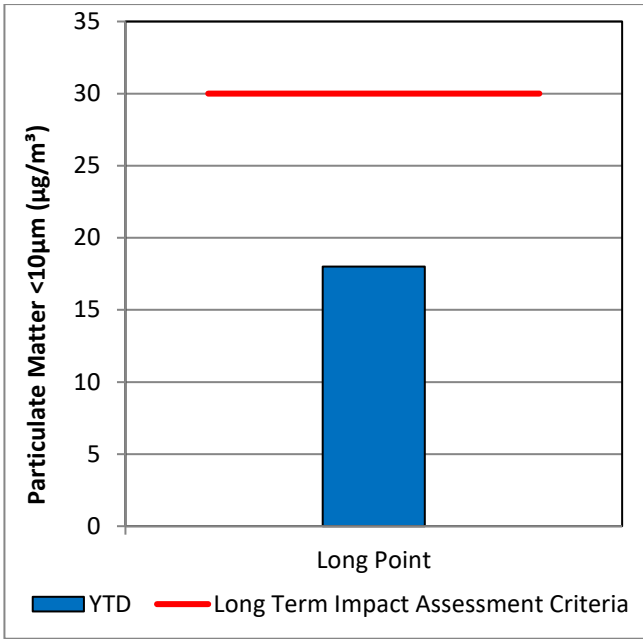


Figure 7: Annual Average PM₁₀ – May 2024

2.3.2 TSP Results

Figure 7 shows the annual average TSP results compared against the long-term impact assessment criteria of 90µg/m³.

An assessment of MTW’s compliance with the Long-Term Impact Assessment Criteria will be provided in the 2024 Annual Review Report.

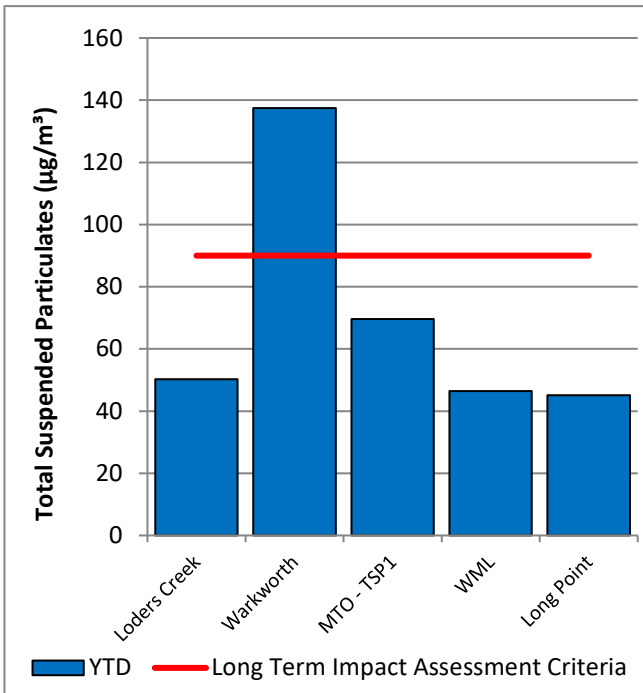


Figure 8: Annual Average Total Suspended Particulates – May 2024

2.3.3 Real Time PM₁₀ Results

MTW maintains a network of real time PM₁₀ monitors. The real time air quality monitoring stations continuously log information and transmit data to a central database, generating internal alerts when particulate matter levels exceed internal trigger limits.

Results for real time dust sampling are shown in Figure 8, including the daily 24-hour average PM₁₀ result and the annual PM₁₀ average.

On 31 May 2024, the Warkworth TEOM (54.1 µg/m³) exceeded the short term (24hr) criteria. The measurement was assessed for MTW’s potential contribution based on meteorological conditions on this day. It was determined that the wind direction was not from MTW’s angle of influence and so that MTW was not a contributor to the result. Accordingly, no further action is required (as per approved Air Quality Monitoring Programme).

Data from the Wambo Monitor was not available on 5, 6, 28, 29 and 31 May, from the Warkworth Monitor on 28 and 29 May and the Bulga Monitor on 15 May due to equipment issues.

2.3.4 Real Time Alarms for Air Quality

During May, the real time monitoring system generated 151 automated air quality related alerts, including 1 alert for adverse meteorological conditions and 150 alerts for elevated PM₁₀ levels.

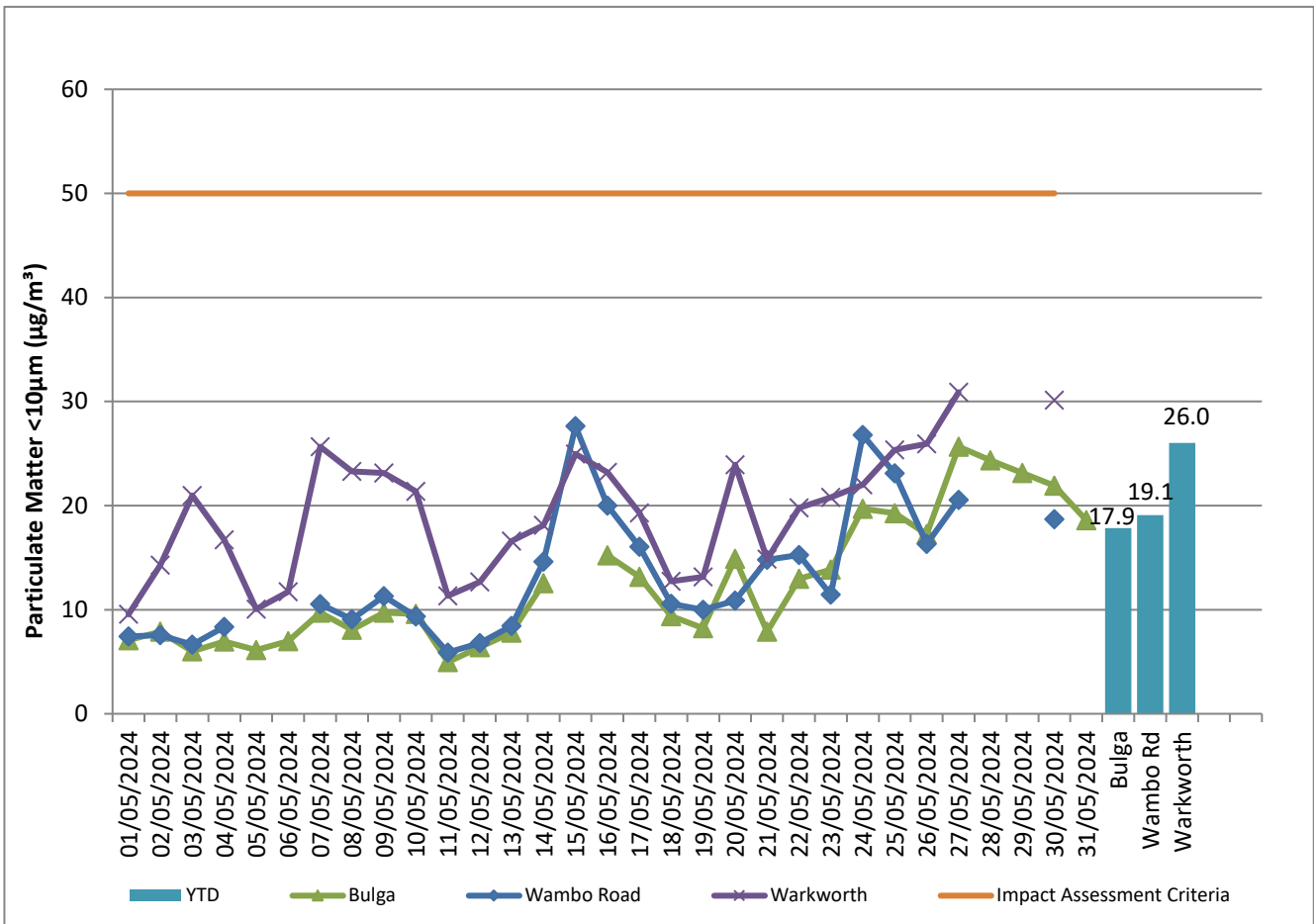


Figure 9: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – May 2024

3.0 WATER QUALITY

MTW maintains a network of surface water and groundwater monitoring sites.

3.1 Surface Water

Monitoring is conducted at mine site dams and surrounding natural watercourses.

Surface water courses are sampled on a monthly or quarterly sampling regime. Water quality is evaluated through the parameters of pH, Electrical Conductivity (EC) and Total Suspended Solids (TSS). The Hunter River and the Wollombi Brook are sampled both upstream and downstream of mining operations, to record background water quality and to monitor the potential impact of mining on the river system. Other Hunter River tributaries are also monitored.

Results of monitoring are reported quarterly, next available in the June 2024 report.

3.2 HRSTS Discharge

MTW participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points located at Dam 1N and Dam 9S. Discharges can only take place subject to HRSTS regulations.

MTW did not undertake any HRSTS discharges in the reporting period.

3.3 Groundwater Monitoring

Groundwater monitoring is undertaken on a quarterly basis in accordance with the MTW Groundwater Monitoring Programme.

Groundwater results are reported quarterly, next available in the June 2024 report.

4.0 BLAST MONITORING

MTW have a network of six blast monitoring units. These are located at nearby privately owned residences and function as regulatory compliance monitors.

The location of these monitors can be found in **Figure 15**.

4.1 Blast Monitoring Results

During May 2024, 24 blasts were initiated at MTW. **Figure 9** to **Figure 14** show the blast monitoring results for the reporting period against the impact assessment criteria. The criteria are summarised in **Table 2**.

Table 2: Blasting Limits

Airblast Overpressure (dB(L))	Comments
115	5% of the total number of blasts in a 12 month period at WML or MTO
120	0%

Ground Vibration (mm/s)	Comments
5	5% of the total number of blasts in a 12 month period at WML or MTO
10	0%

During the reporting period one blast exceeded the 115dB(L) threshold for airblast overpressure at the Warkworth monitoring location. No blast exceeded the 5 mm/s criteria for ground vibration.

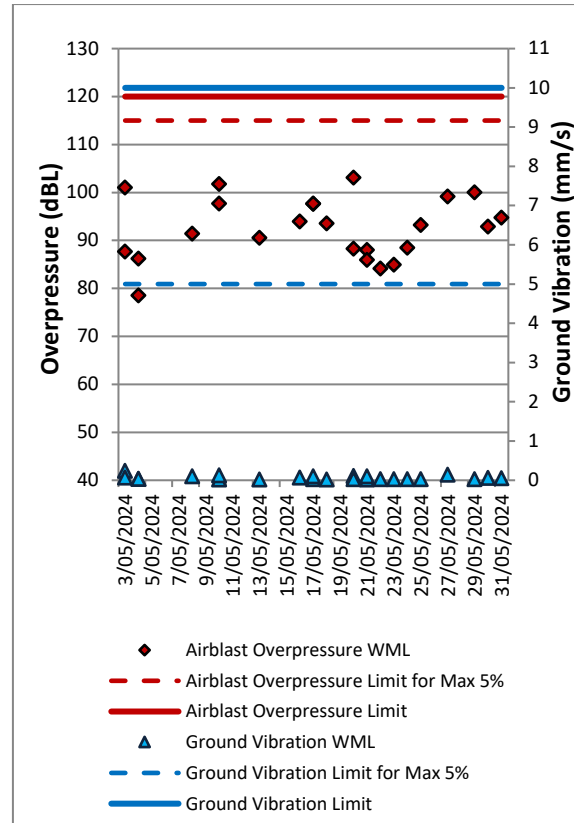


Figure 10: Abbey Green Blast Monitoring Results – May 2024

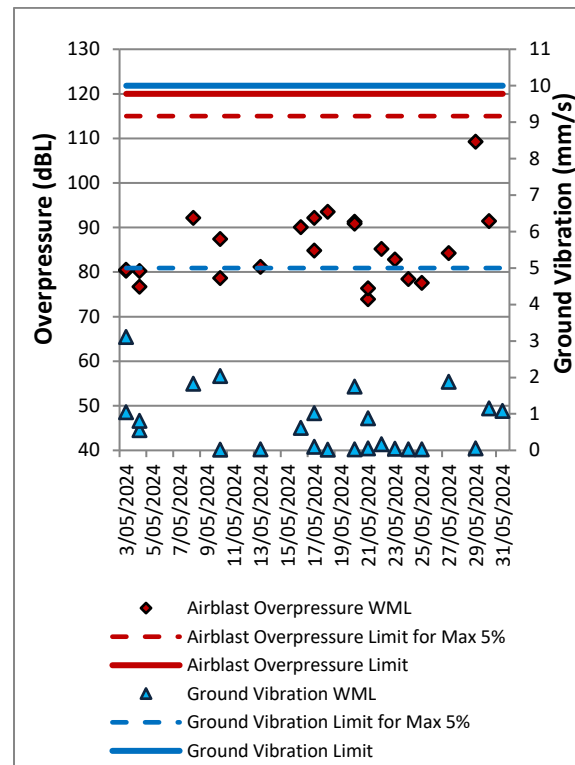


Figure 11: Bulga Village Blast Monitoring Results – May 2024

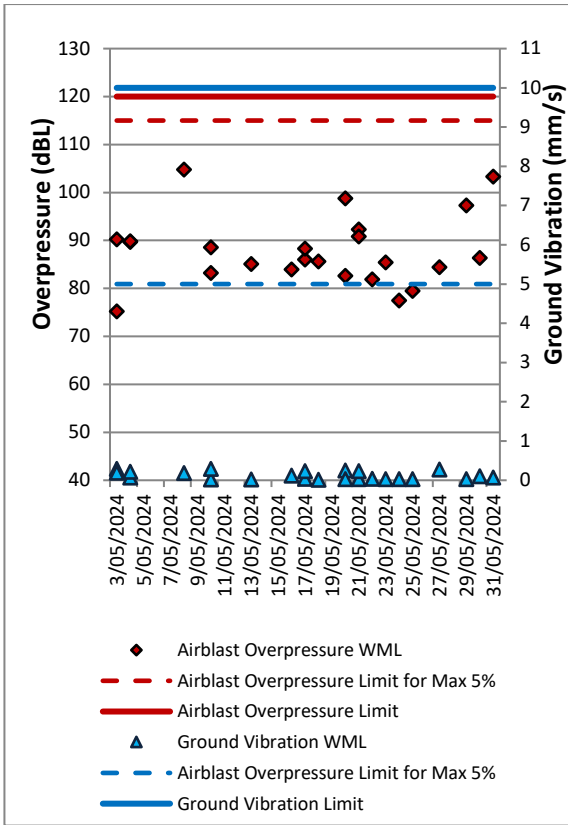


Figure 12: MTIE Blast Monitoring Results – May 2024

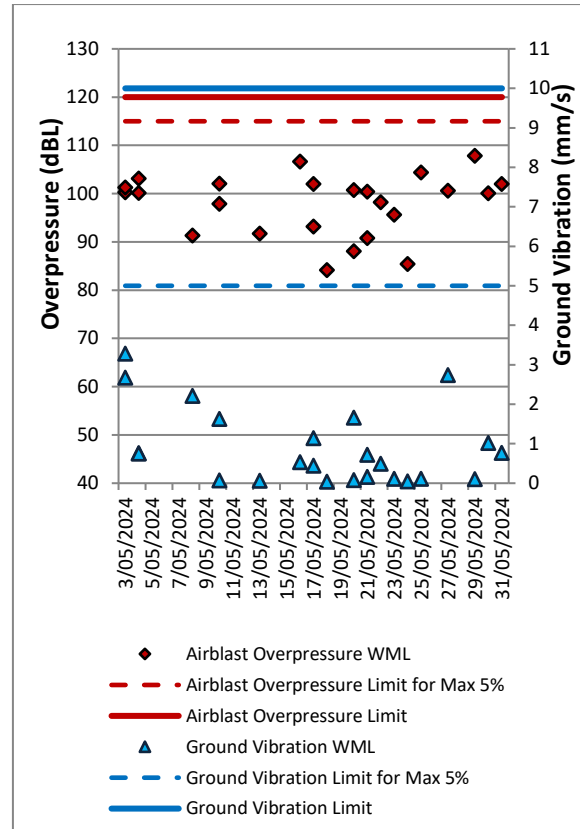


Figure 14: Wambo Road Blast Monitoring Results – May 2024

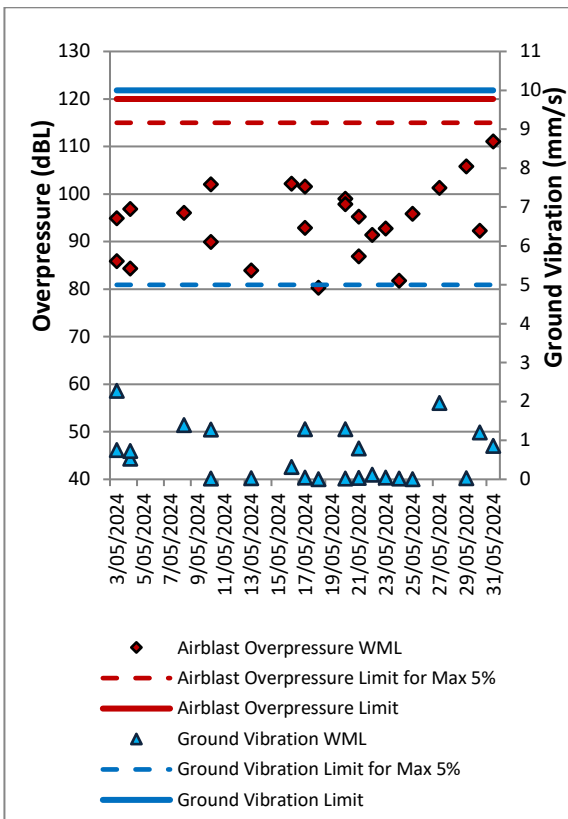


Figure 13: Wollemi Peak Road Blast Monitoring Results – May 2024

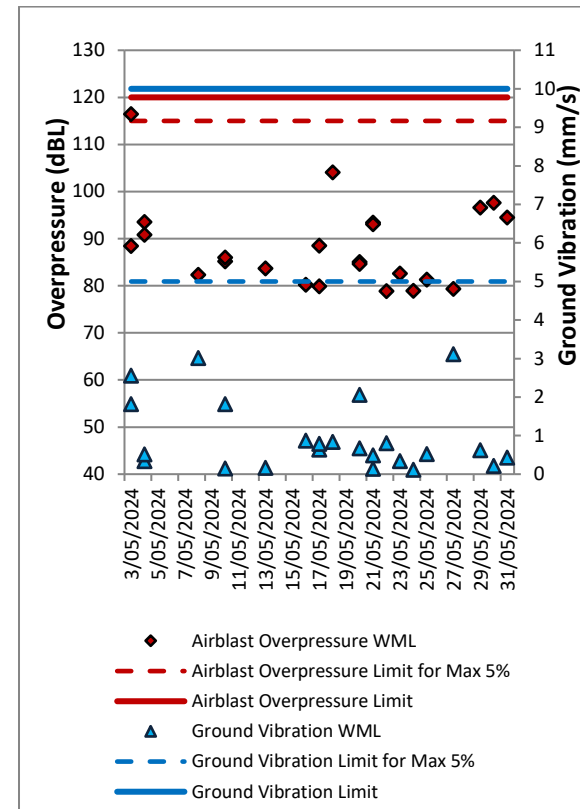


Figure 15: Warkworth Blast Monitoring Results – May 2024

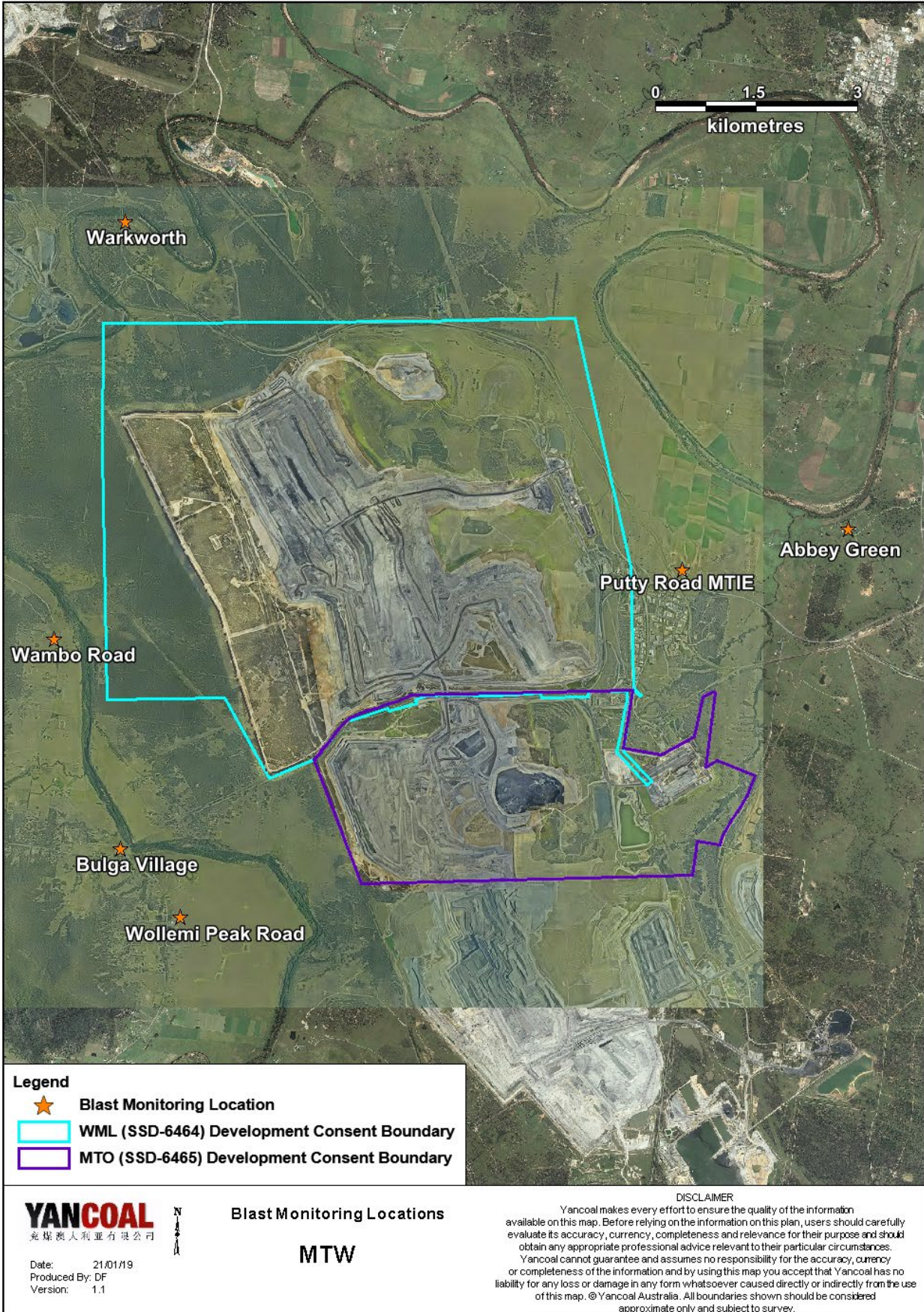


Figure 16: MTW Blast Monitoring Location Plan

5.0 NOISE

Routine attended noise monitoring is carried out in accordance with the MTW Noise Management Plan. A review against EIS predictions will be reported in the Annual Review. The purpose of the noise surveys is to quantify and describe the acoustic environment around the site and compare results with specified limits. Real time noise monitoring also occurs at five sites surrounding MTW. Noise monitoring locations are displayed in **Figure 16**.

5.1 Attended Noise Monitoring Results

Attended monitoring was conducted at receiver locations surrounding MTW on the nights 7 and 13 May 2024. Measurements complied with the relevant criteria, with the exception of WML levels at Inlet Road, where noise levels were increased by the applicability of a low frequency modifying factor (refer to **Table 7**). Follow up monitoring conducted on 13 May 2024 (as required by the MTW Noise Management Plan) complied with the relevant criteria at the remeasured location. Results are detailed in **Table 3** to **Table 6**.

5.1.1 WML Noise Assessment

Compliance assessments undertaken against the WML noise criteria are presented in **Tables 3** and **4**.

Table 3: LAeq, 15 minute Warkworth Impact Assessment Criteria – May 2024

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML LAeq dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	7/05/2024 23:03	1.2	F	37	Yes	IA	Nil
Bulga Village	7/05/2024 22:18	1.9	F	38	Yes	26	Nil
Gouldsville	7/05/2024 22:21	1.9	F	38	Yes	32	Nil
Inlet Road	7/05/2024 21:25	2.5	D	37	Yes	39	+2
Inlet Road ⁵	13/05/2024 22:00	0.1	E	37	Yes	33	Nil
Inlet Road West	7/05/2024 21:00	2.3	E	35	Yes	34	Nil
Long Point	7/05/2024 21:48	2.4	D	35	Yes	NM	Nil
South Bulga	7/05/2024 23:52	1.9	D	35	Yes	IA	Nil
Wambo Road	7/05/2024 21:55	2	E	38	Yes	36	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LAeq,15minute attributed to WML, including modifying factors if applicable;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5. Follow up measurement within one week of measured exceedance.

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – May 2024

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML LA1, 1min dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	7/05/2024 23:03	1.2	F	47	Yes	IA	Nil
Bulga Village	7/05/2024 22:18	1.9	F	48	Yes	30	Nil
Gouldsville	7/05/2024 22:21	1.9	F	48	Yes	35	Nil
Inlet Road	7/05/2024 21:25	2.5	D	47	Yes	40	Nil
Inlet Road ⁵	13/05/2024 22:00	0.1	E	47	Yes	38	Nil
Inlet Road West	7/05/2024 21:00	2.3	E	45	Yes	40	Nil
Long Point	7/05/2024 21:48	2.4	D	45	Yes	NM	Nil
South Bulga	7/05/2024 23:52	1.9	D	45	Yes	IA	Nil

Wambo Road	7/05/2024 21:55	2	E	48	Yes	38	Nil
------------	-----------------	---	---	----	-----	----	-----

Notes:

- Noise criteria apply during all meteorological conditions except the following: wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;
- Site-only LA1,1minute attributed to WML;
- Bold results in red indicate exceedance of relevant criterion; and
- NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.
- Follow up measurement within one week of measured exceedance.

5.1.2 MTO Noise Assessment

Compliance assessments undertaken against the MTO noise criteria are presented in **Table 5** and **6**.

Table 5: LAeq, 15minute Mount Thorley - Impact Assessment Criteria – May 2024

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO LAeq dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	7/05/2024 23:03	1.2	F	37	Yes	<25	Nil
Bulga Village	7/05/2024 22:18	1.9	F	38	Yes	NM	Nil
Gouldsville	7/05/2024 22:21	1.9	F	35	Yes	IA	Nil
Inlet Road	7/05/2024 21:25	2.5	D	37	Yes	IA	Nil
Inlet Road ⁵	13/05/2024 22:00	0.1	E	37	Yes	NM	Nil
Inlet Road West	7/05/2024 21:00	2.3	E	35	Yes	IA	Nil
Long Point	7/05/2024 21:48	2.4	D	35	Yes	IA	Nil
South Bulga	7/05/2024 23:52	1.9	D	36	Yes	31	Nil
Wambo Road	7/05/2024 21:55	2	E	38	Yes	IA	Nil

Notes:

- Noise criteria apply during all meteorological conditions except the following: wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;
- Site-only LAeq,15minute attributed to MTO, including modifying factors if applicable;
- Bold results in red indicate exceedance of relevant criterion; and
- NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.
- Follow up measurement within one week of measured exceedance.

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – May 2024

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO LA1, 1min dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	7/05/2024 23:03	1.2	F	47	Yes	<25	Nil
Bulga Village	7/05/2024 22:18	1.9	F	48	Yes	NM	Nil
Gouldsville	7/05/2024 22:21	1.9	F	45	Yes	IA	Nil
Inlet Road	7/05/2024 21:25	2.5	D	47	Yes	IA	Nil
Inlet Road ⁵	13/05/2024 22:00	0.1	E	47	Yes	NM	Nil
Inlet Road West	7/05/2024 21:00	2.3	E	45	Yes	IA	Nil
Long Point	7/05/2024 21:48	2.4	D	45	Yes	IA	Nil
South Bulga	7/05/2024 23:52	1.9	D	46	Yes	38	Nil
Wambo Road	7/05/2024 21:55	2	E	48	Yes	IA	Nil

Notes:

- Noise criteria apply during all meteorological conditions except the following: wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;
- Site-only LA1,1minute attributed to MTO;
- Bold results in red indicate exceedance of relevant criterion; and
- NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.
- Follow up measurement within one week of measured exceedance.

5.1.3 NPfl Low Frequency Assessment

In accordance with the requirements of the EPA’s Noise Policy for Industry (NPfl), the applicability of the low frequency modification factor corrections has been assessed. This resulted in the application of a 2dB penalty to the site only LAeq for the measurements taken at Inlet Road on 7 May 2024. Resulting LAeq noise levels exceed the WML impact assessment criteria at Inlet Road by 2dB.

As described in **Section 8**, the Inlet Road results and MTW’s response was reported to the Department of Planning, Housing and Infrastructure.

The WML assessment for low frequency noise is shown in **Table 7** and the MTO assessment for low frequency noise is shown in **Table 8**: Mount Thorley Operations Low Frequency Noise Assessment – .

Table 7: Warkworth Low Frequency Noise Assessment – May 2024

Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²
Bulga RFS	7/05/2024 23:03	IA	Yes	No	No	N/A	No	N/A	Nil
Bulga Village	7/05/2024 22:18	26	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	7/05/2024 22:21	32	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	7/05/2024 21:25	37	Yes	No	No	N/A	Yes	2 dB at 80 Hz	2 dB
Inlet Road ³	13/05/2024 22:00	33	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	7/05/2024 21:00	34	Yes	No	No	N/A	No	N/A	Nil
Long Point	7/05/2024 21:48	NM	Yes	No	No	N/A	No	N/A	Nil
South Bulga	7/05/2024 23:52	IA	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	7/05/2024 21:55	36	Yes	No	No	N/A	No	N/A	Nil

Notes:

1. NA denotes 'not applicable'; and

2. Bold results indicate that application of NPfl modifying factor/s is required.

3. Follow up measurement within one week of measured exceedance.

Table 8: Mount Thorley Operations Low Frequency Noise Assessment – May 2024

Location	Date and Time	Measured MTO LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²
Bulga RFS	7/05/2024 23:03	<25	Yes	No	No	N/A	No	N/A	Nil
Bulga Village	7/05/2024 22:18	NM	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	7/05/2024 22:21	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	7/05/2024 21:25	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road ³	13/05/2024 22:00	NM	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	7/05/2024 21:00	IA	Yes	No	No	N/A	No	N/A	Nil
Long Point	7/05/2024 21:48	IA	Yes	No	No	N/A	No	N/A	Nil
South Bulga	7/05/2024 23:52	31	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	7/05/2024 21:55	IA	Yes	No	No	N/A	No	N/A	Nil

Notes:

1. NA denotes 'not applicable'; and

2. Bold results indicate that application of NPfj modifying factor/s is required.

3. Follow up measurement within one week of measured exceedance.

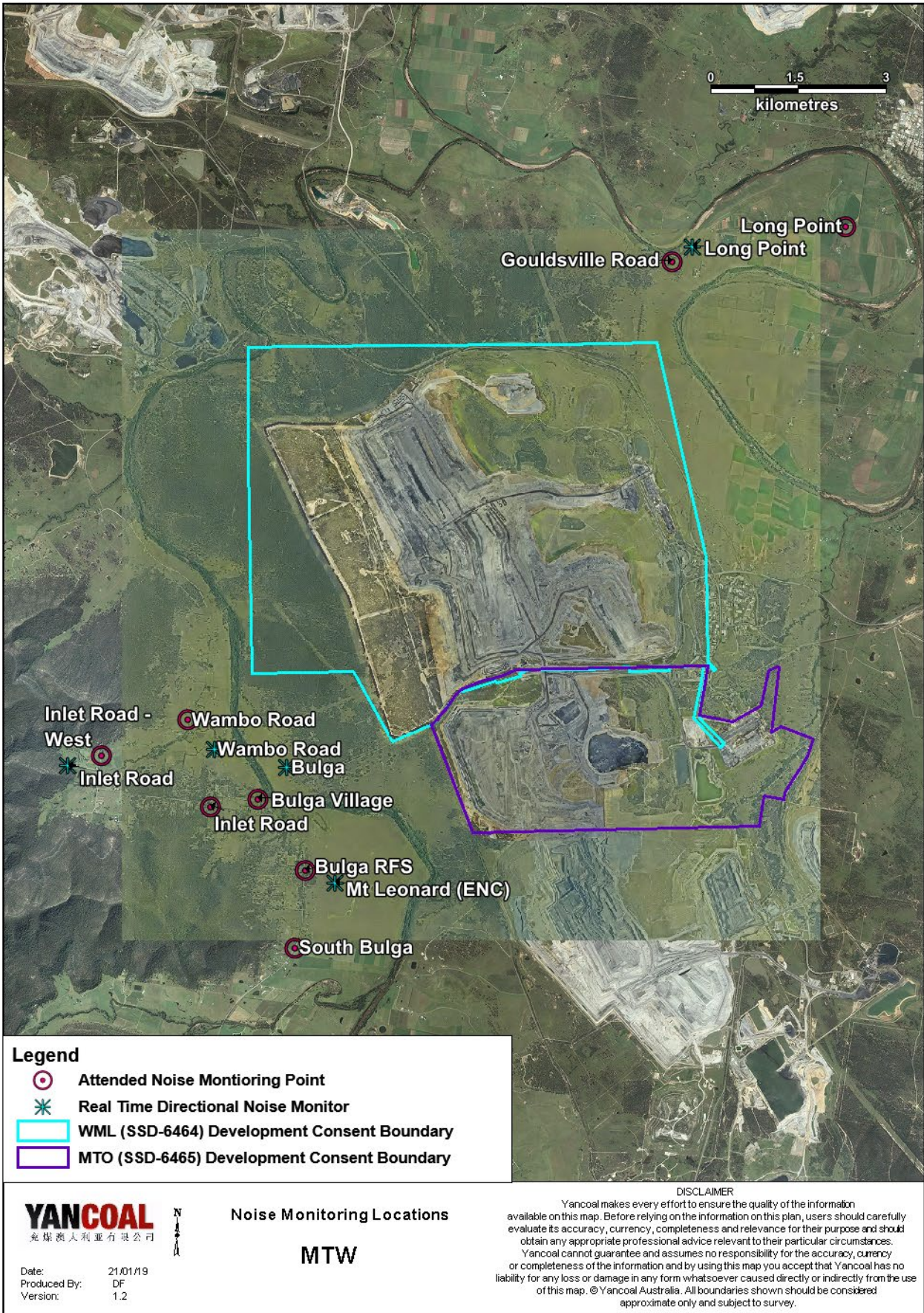


Figure 17: Noise Monitoring Location Plan

5.2 Noise Management Measures

A program of targeted supplementary attended noise monitoring is in place at MTW, supported by the real-time directional monitoring network and ensuring the highest level of noise management is maintained. The supplementary program is undertaken by MTW personnel and involves:

- Routine inspections from both inside and outside the mine boundary;
- Routine and as-required handheld noise assessments (undertaken in response to noise alarm and/or community complaint), comparing measured levels against consent noise limits; and
- Validation monitoring following operational modifications to assess the adequacy of the modifications.

Where a noise assessment identifies noise emissions which are exceeding the relevant noise limit(s) for any particular residence, modifications will be made to ensure that the noise event is resolved within 75 minutes of identification. The actions taken are commensurate with the nature and severity of the noise event, but can include:

- Changing the haul route to a less noise sensitive haul;
- Changing dump locations (in-pit or less exposed dump option);
- Reducing equipment numbers;
- Shut down of task; or
- Site shut down.

A summary of these assessments undertaken during May are provided in **Table 9**.

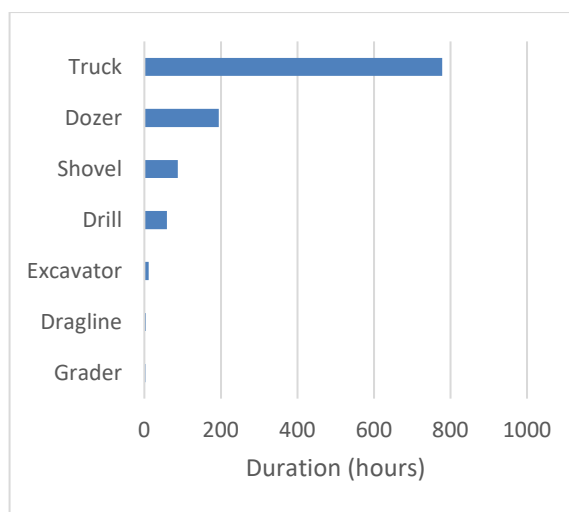
Table 9: Supplementary Attended Noise Monitoring Data – May 2024

No. of assessments	No. of assessments > trigger	No. of nights where assessments > trigger	% greater than trigger
728	33	15	4.5

6.0 OPERATIONAL DOWNTIME

During May, a total of 1136.9 hours of equipment downtime was logged in response to environmental events such as dust, noise and adverse meteorological conditions. Operational downtime by equipment type is shown in **Figure 17**.

Figure 18: Operational Downtime by Equipment Type – May 2024



7.0 REHABILITATION

During May 2024, 0.37 Ha of land was released, 5.91 Ha was bulk shaped, and 1.55 Ha was top soiled.

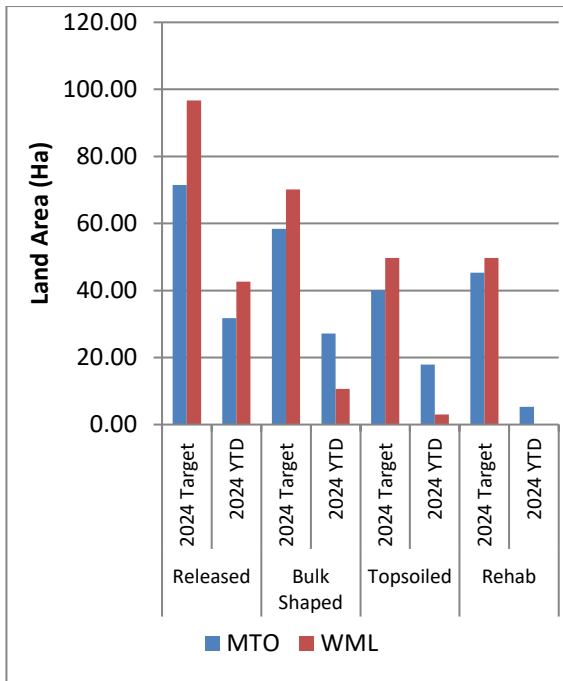


Figure 19: Rehabilitation YTD – May 2024

8.0 ENVIRONMENTAL INCIDENTS

There was one environmental incident recorded during the reporting period.

An exceedance of the WML noise criterion was recorded at the Inlet Road monitoring location on 7 May 2024 starting at 21:25. A mining continuum from WML was audible throughout the measurement, generating a site-only LAeq of 37dB. A low frequency modifying factor of +2dB was applicable in accordance with the NPfi resulting in an adjusted site-only LAeq of 39dB, which exceeded the relevant criterion by 2dB. In accordance with the approved Noise Management Plan Process, after the conclusion of the entire noise monitoring survey on 8 April 2024 at 00:37am, the noise consultant advised MTW of the potential noise exceedance at the Inlet Road location. There were no other exceedances of noise criteria identified by the noise consultant. MTW had already been undertaking supplementary noise readings and had attended the Inlet Road monitoring location at 7/5/2024 19:55 which recorded a supplementary handheld noise reading 2 dB below the noise criterion at this location. The Inlet Road West monitoring location (which is further away from MTW's mining operations than The Inlet Road location), was attended at 7/5/2024 20:05. A supplementary handheld noise reading was recorded at 1 dB over the noise criterion at this location and a series of operational controls were implemented to reduce noise in response between 20:05 and 20:15, which reduced noise levels to the noise criterion by 20:30. Supplementary handheld noise readings at the Inlet Road West location at 20:55 identified noise levels were above the noise criterion at this location by 1dB, and further operational controls were implemented to reduce noise in response, which reduced noise levels to the noise criterion by 21:10. The Inlet Road monitoring location was attended for supplementary hand held noise monitoring at 7/5/2024 21:20, which recorded a reading 1dB of the noise criterion at this location, and further operational controls were implemented to reduce noise between 21:20 and 21:55. These controls reduced noise levels to the noise criterion by 22:10 and after this point all supplementary hand held noise readings taken between 7/5/2024 22:10 and 8/5/2024 04:00 were within the relevant noise at all locations and no further operational controls were necessary. In addition, the

supplementary noise readings included visits to the Inlet Road monitoring location at 7/5/2024 23:15, where MTW was inaudible, and at 8/4/2024 02:50, where noise levels were recorded at 3dB below the relevant noise criterion. It is noted that there were no community complaints received in relation to noise on the night of 7/5/2024.

Follow up attended compliance monitoring in response to the recorded exceedance was conducted at the Inlet Road location at 14/5/2024 22:00, (i.e. within 2 weeks) in accordance with the process outlined in the approved NMP. The noise level during follow up monitoring from WML was LAeq, 15min 33 dB, and LA1, 1min 38 dB which complied with the relevant noise criteria. The Department of Planning, Housing and Infrastructure was notified of the exceedance measurement on 8 May 2024. A written report was also provided to DPHI on 15 May 2024. The private residences within the Inlet Road representative monitoring area were also notified of the noise exceedance, and the follow up noise monitoring which complied with the noise criterion.

9.0 COMPLAINTS

16 complaints were received during the reporting period. Details of these complaints are shown in **Table 10**.

Table 10: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Total
January	1	3	5	2	0	11
February	3	4	1	0	0	8
March	3	1	2	0	0	6
April	7	2	1	5	0	15
May	8	1	5	0	2	16
June						
July						
August						
September						
October						
November						
December						
Total	22	11	14	7	2	56

Appendix A: Meteorological Data

Table 11: Meteorological Data – Charlton Ridge Meteorological Station – May 2024

Date	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/05/2024	18	10	100	71	178	3.8	9.6
2/05/2024	21	11	98	53	163	3.2	0.0
3/05/2024	20	10	100	60	176	3.1	0.2
4/05/2024	20	12	100	64	155	2.1	6.6
5/05/2024	18	11	100	69	182	2.2	11.4
6/05/2024	18	11	100	86	173	4.1	20.6
7/05/2024	20	10	99	54	168	3.1	0.0
8/05/2024	20	11	100	63	171	2.7	0.2
9/05/2024	21	12	100	62	167	2.7	10.0
10/05/2024	19	12	100	63	168	2.5	0.2
11/05/2024	17	12	100	88	143	2.1	18.0
12/05/2024	20	12	100	63	207	1.2	0.4
13/05/2024	21	11	100	59	235	1.8	0.0
14/05/2024	23	9	100	47	248	1.6	0.2
15/05/2024	22	10	100	51	208	1.4	0.0
16/05/2024	21	9	100	56	183	1.6	0.0
17/05/2024	21	10	100	60	256	1.7	0.0
18/05/2024	14	8	95	56	198	3.9	0.8
19/05/2024	18	6	87	41	228	1.6	0.0
20/05/2024	18	3	88	42	251	2.0	0.0
21/05/2024	19	8	99	53	174	2.1	0.0
22/05/2024	19	6	100	45	238	1.4	0.0
23/05/2024	19	5	100	47	223	1.3	0.0
24/05/2024	19	6	100	53	206	1.2	0.2
25/05/2024	19	8	100	65	187	1.5	0.0
26/05/2024	20	9	100	61	229	1.8	0.0
27/05/2024	21	7	100	48	218	1.0	0.2
28/05/2024	21	5	100	47	194	1.5	0.2
29/05/2024	22	5	100	46	205	1.3	0.0
30/05/2024	23	6	100	46	220	1.2	0.0
31/05/2024	22	11	100	52	231	3.1	2.8